

# FOLIO

17 JANUARY 1991

## Government criticized for University funding crisis

University administrators were applauded for their willingness to hold a public forum by a number of questioners at the 1991-92 budget forum 10 January. But the provincial government did not fare so well.

Milan Dimic (Comparative Literature), who opened the question period, said, "I would like to express my appreciation for this forum and for the fact that the President and his colleagues have tried to proceed during this very difficult period in an open, reasoned and principled way."

However, Dr Dimic said that to the best of his knowledge, the provincial government cabinet has not

indicated its intentions for the universities. He urged the University to press the government and politicians to explain what their intentions are for the system.

Applause from faculty members, support staff and students followed Dr Dimic's suggestion that there's a good chance that the present government may lose the next election. He asked whether the Board of Governors and President "had established overriding, intellectual reasons why we should not try to muddle through with the reserves which we have and which are depleting in the next two or

three years in the hopes that there may be a change of attitude in the government?" Or, must the University now resort to structural measures and use the guillotine?

President Paul Davenport responded by saying efforts have been made in the Universities Coordinating Council to get the government to state its more long-term intentions. And the universities will be urging the government to adopt the same, longer term approach to grants as they have for hospitals.

"Why don't we try to muddle through with a policy of running down our reserves?" the President

asked. "That's what we have been doing for some time and we can now see the day when there'll be nothing left of them." But the Universities Act says universities cannot run deficits which result in an unfunded liability.

"But the other reason for vertical cuts," he said, "is that the Deans, Directors and Chairs have been telling us for some time that we can no longer live with these across-the-board cuts." President Davenport added that the administration thinks there's a good case this year for selective cuts.

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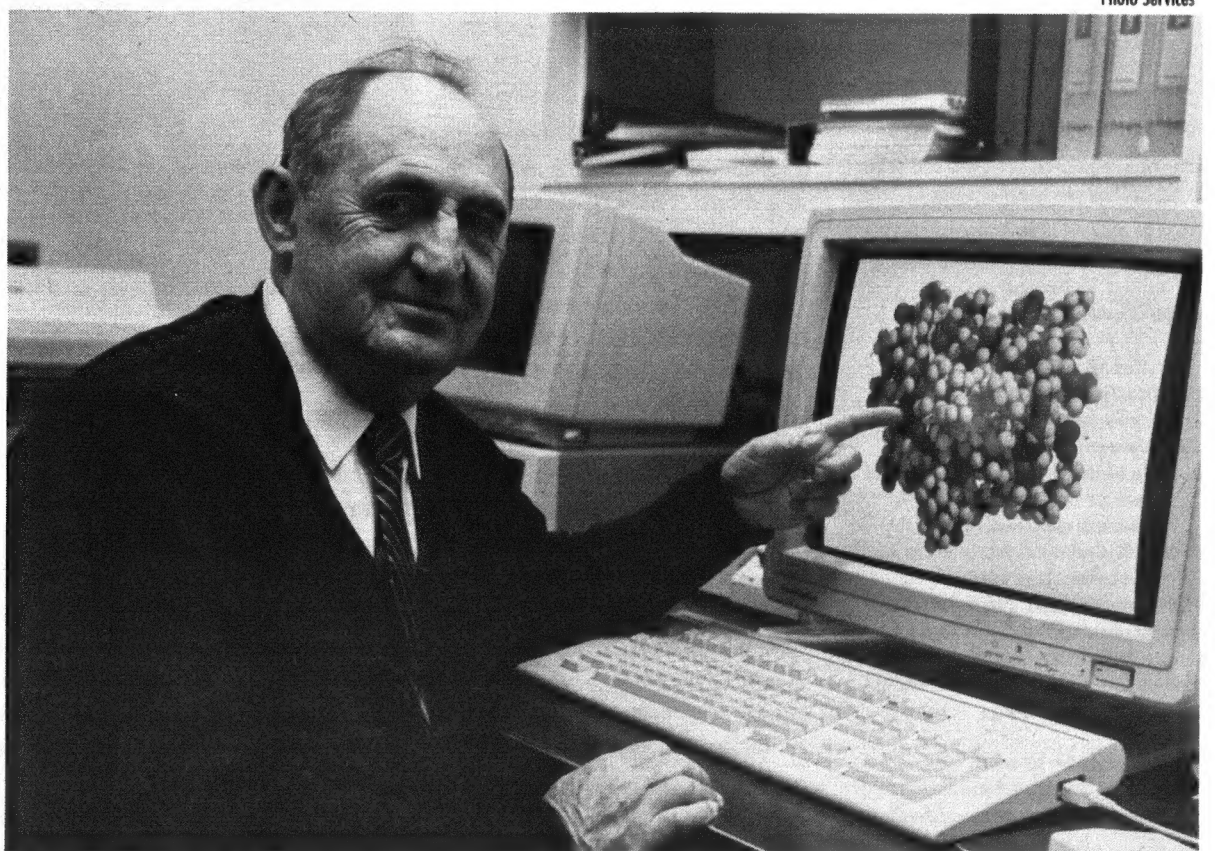
## Lemieux first winner of Canada Gold Medal for Science and Engineering

Raymond Lemieux, Professor Emeritus of Chemistry, has been named the first recipient of the Natural Sciences and Engineering Research Council of Canada's newly created award, the Canada Gold Medal for Science and Engineering.

Dr Lemieux, who's been with the University of Alberta for 30 years, said he was grateful that NSERC had chosen him as the first recipient of the prestigious award. "I could not have done this work anywhere else," he said of his accomplishments in organic chemistry, biology, medicine, and theoretical and physical chemistry.

Dr Lemieux noted that the research atmosphere on the U of A campus during the 1960s and '70s was exceptional. "I hope we can get back to those standards again, Mr President," he said, turning to address President Paul Davenport during a news conference last Thursday.

He told *Folio* that it has become increasingly difficult for researchers to meet their commitments while being continually subjected to budget cuts. The man considered by his peers to be the modern pioneer of the field of carbohydrate chemistry said the issue of research funding should be carefully examined.



Chemistry Professor Emeritus Ray Lemieux

"We have never spent enough money on research in this country," said Dr Lemieux, echoing comments made recently by Nobel Physics Prize winner and U of A alumnus, Richard Taylor.

Moreover, said one of this country's leading players in the growth of the biotechnology industry, Canada

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University of Alberta



# Funding Crisis

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Economics Professor Bruce Wilkinson said, "Looking at the world situation, we shouldn't assume that this is just a short-term, one- or two-year phenomenon that we have to deal with. There has to be some new thinking," he said.

"If everybody in the University [academics and support staff] gave \$25 a month as a charitable contribution to the University—those with higher incomes would give a little more and those in the lower level would give less—that \$300 a year would add \$1.62 million to the University budget. And the interesting thing is that about \$750,000 of that would come out of government coffers through tax refunds.

"It seems to me that just laying off people is not solving the problem," he said. It's creating more problems because sooner or later the unemployed will have to have unemployment insurance and welfare and taxes will have to go up. He questioned whether the administration was continuing to grow.

The President said in some particular cases a growing administration is responding to outside pressures, such as the Office of Research Services, larger today than it was 30

years ago. "But look at the changes over those last few decades," he said, and the funding agencies' demands on universities keep growing and are increasingly concerned about accountability.

He pointed out that the University does have two new vice-presidents, but in creating those positions a number of associate vice-president and director positions were eliminated, "so indeed we have one less of all those things right now. I don't believe at the very senior levels that there's been any expansion at all."

Acting Vice-President (Development and Community Affairs) Gerry Glassford said one area that will have a profound impact on the future operation of the University is the Development Office. "Right now about 1.4 percent of our base budget is driven by interest on endowments and gifts of various types," he said, suggesting that that figure has to increase.

Referring to a table in the preliminary estimate document for the 1991-92 budget distributed at the forum which outlined surpluses or deficits that may result from staff settlements, NASA member Brendon O'Neill said the included scale really amounted to a bargaining tactic by administrators.

"That's a bargaining tactic; I don't care what anyone says. We'll be hit with that when we hit the bargaining table or arbitration."

The President responded: "I don't believe that this is a negotiating document in any sense and I think we've written it very carefully so that it won't be."

AAS:UA President Fred Van de Pitte said the forum was really not the place to talk about salary negotiations, but he cautioned that if the University salary and benefit levels fall behind at this crucial recruiting time, the U of A will not be able to attract new faculty members from the United States and Eastern Canada.

Vice-President (Academic) Peter Meekison said, "I'm not prepared to start negotiating with you now. We'll be exchanging positions next week."

On the issue of layoffs, President Davenport said the University doesn't have the financial resources to guarantee that people laid off will be able to be reassigned. He noted that tenure would be fully respected when the University proposes its selective cuts in mid-February. If units are closed, he said, faculty members will be reassigned to other units.

Dr Meekison said the General Faculties Council Policy Manual is quite clear. GFC must give its approval to the closure of academic units.

"I really appreciate the chance we've had to speak to our administrators and to ask them questions at this

forum," said Juliet McMaster (English). "We are not really in an adversarial position; you are on our side," she told the President, Vice-Presidents and Acting Vice-Presidents. The forum we would really like to have would be with the government, she said to applause from the crowd which nearly filled the lower level of the Myer Horowitz Theatre.

"I know that it is your job as administrators to mediate between us and the government, but I just wonder if you feel you are being too friendly?"

The President said, "I suppose I put most of my effort into influencing the next decision. It's a difficult tightrope to walk, to be aggressive enough so that you get the message out that the University of Alberta is hurting, but not to be so aggressive that you seem completely out of touch with reality."

Eric Higgs (Philosophy) asked whether the University had considered any comprehensive programs of conservation?

Acting Vice-President (Administration) Don Bellow said the University has an extensive energy conservation program. "We still have an energy cost to this University in excess of \$10 million a year," he said, and so the University is continually examining ways where savings can occur.

Chuck Chamberlin (Elementary Education) said although it was good that people within the University community could talk together, he wondered about the extent to which people in the broader community would have an opportunity to be heard? He said he was particularly concerned about children growing up in poorer families.

Faculty of Science Dean John McDonald said the University's differences with the government were due in large part because the people in government don't fully accept that the University has problems. They're more likely to listen if they hear students telling them what's really happening on campus, he suggested.

BJ Busch (Libraries) asked how often have the backbenchers heard from us? I would just encourage those of you who haven't expressed your opinions to government; tell them where you think their priorities should be, she said.

Both presidents of the two major staff associations emphasized the toll budget cutbacks are having on their members. NASA President Anita Moore said there has been a significant increase in the use of the employee assistance program, with the majority of the subscribers wanting to know how to deal with stress.

Dr Van de Pitte said the "human element in this University is crumbling."

## FOLIO

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University  
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## Lemieux

Continued from page 1

has not always spent the money it does allocate for research as wisely as it should. The best science should be supported to a much greater extent, he said.

NSERC President Peter Morand, at the University to make the announcement, said Dr Lemieux is one of the country's most creative scientists and has shown a rare talent for getting science to the marketplace. Dr Morand described Dr Lemieux as "a true hero of Canadian science."

"Gee," said Dr Lemieux, responding to the accolades, "it's hard to believe it's me, when I hear you guys talking."

Born in 1920 at Lac La Biche (he was the seventh in a family of eight children), Dr Lemieux earned his BSc from the U of A in 1943 and a PhD in Organic Chemistry at McGill University in 1946. He was a Postdoctoral Fellow at Ohio State University in 1946-47. Following a brief stint at the University of Saskatchewan, he became senior research officer at NRC's Prairie Regional Laboratory in 1949.



Photo Services

President Davenport, Dr Lemieux, Dr Morand and Scott Thorkelson, MP for Edmonton Strathcona (left to right), at the news conference.

In 1954 he went to the University of Ottawa as Professor and Chair of the Department of Chemistry. He played a key role in the department's development, and served as Vice-Dean, Faculty of Pure and Applied Sciences.

For many years the top NSERC grant recipient at the U of A, Dr Lemieux's research was from the very beginning recognized as brilliant. He became fascinated with the molecules of life when he realized that small differences in molecular structure can profoundly affect fragrances, taste and colour. He wanted to learn more about living organisms and so chose the field of carbohydrate chemistry.

He is credited with transforming the field of carbohydrate chemistry from something near "magic" into a rigorous and productive science, and contributing fundamental advances to organic chemistry and the related fields of medicine, biology and theoretical and physical chemistry.

Dr Lemieux has contributed to the knowledge of the human immune system, knowledge which has led to the development of medical techniques for controlling immune system reactions.

The holder of dozens of honorary degrees and awards from around the world began winning international attention as early as 1953 when he achieved the first total

synthesis of sucrose. He then turned to a new high resolution imaging technique known as nuclear magnetic resonance (NMR) spectroscopy to determine the shapes of molecules in solution and how these relate to their chemical properties.

Until Dr Lemieux's recognition of its utility as a research tool in organic chemistry, NMR was exclusively the province of physical chemists and physicists. By 1958, he had achieved landmark discoveries, including the identification of the "anomeric effect" now recognized as one of several related stereo electronic phenomena explaining many organic reactions.

His research during that phase in his career—considered far ahead of its time—contributed now classic techniques and concepts in organic chemistry to laboratories around the world.

Dr Lemieux has been instrumental in the foundation of three companies, including Chembiomed Ltd, a world leader in the synthesis of biologically active carbohydrates.

President Davenport announced at the news conference that the University would permanently fund the Raymond U Lemieux Lectures on Biotechnology.

On 15 January in Ottawa, the NSERC medal was presented to Dr Lemieux by Minister for Science William Winegard.



# PhD nursing student's hunch was right

Ginette Rodger came to Edmonton and the University of Alberta because she was convinced that the first PhD Nursing program in the country would be offered here. She was right.

Now, Rodger expects that she'll be the first student to be admitted into the program, which was just given the green light by the provincial government.

"My dossier has been received by the admission committee ... and I'm absolutely thrilled and enthusiastic," says Rodger, who has her Master's of Nursing Administration from Université de Montréal. "It's a dream come true for me.

"I've been wanting to do a PhD for a long time," she said last week. And now Rodger—a long-time advocate of PhD Nursing programs in Canada—has set her sights on another goal: to be the first "made in Canada" graduate of a PhD Nursing program.

Her committee has been formed and Pamela Brink (Nursing) will serve as her advisor. Rodger's thesis will focus on nursing care components and their effect on reducing stress in patients.

Rodger, who was executive director of the Canadian Nurses Association before moving to Edmonton, said it's important for the University to recognize that it's making history. But approval of the program demonstrates more than that. "This proves that any group of nurses that has a clear plan, clear goals and the determination can be successful," says Rodger, one of the members of Nursing PhD Program: A Reality (NPPR), a lobby group that was dedicated to the establishment of a PhD Nursing program.

It's expected that the doctoral program will have an annual intake of four students and a total enrollment of up to 16 students. Demand for the program is expected to be high, since one estimate is that of the 193 nurses in Canada who held doctoral degrees in 1986, only 13 percent held PhDs in Nursing.

Alberta Health spokesperson Larry McLennan explained last week that Alberta Health would

provide \$140,000 for the first year (beginning January 1991), \$260,000 for the second year, and \$330,000 for the third year. Alberta Advanced Education would then take over the funding of the program.

A PhD nursing program was approved by the University in 1986, subject to government funding.

Funding will enable the Faculty of Nursing to hire two additional, senior-level academic staff members, develop courses to augment existing courses, offer graduate assistantships and provide additional resources for the library, said Dean Marilyn Wood.

**"WE'VE SENT OFF SOME OF OUR BEST PEOPLE TO THE UNITED STATES," SHE SAID, BUT NOW NURSES WILL BE ABLE TO EARN DOCTORAL DEGREES IN THEIR OWN DISCIPLINE.**  
- DEAN WOOD

According to Advanced Education Minister John Gogo, the proposal [which was scaled down from its original form] received widespread support from students, nurses, educators and health care professionals across the province.

Dean Wood said over the years there had been resistance to the establishment of the program due to a lack of understanding of what nursing research entailed. "We don't see that anymore and we've gone beyond that," she said, noting the clear support from people in the other health sciences disciplines on campus.

"What disturbed us the most," said Rodger, "was that we were being told by the University and government that the program was a

number one priority, but nothing was happening." And this was happening at a time when other programs were being approved during the four years following 1986.

There was a second concern. "We were aware that other universities in the East were in the process of developing programs and we worried about the consequences," said Rodger. "Canadian history told us that if we didn't move quickly, we'd lose some of our own resources and it would be even more difficult in the future to develop a program here."

Noting developments at the Universities of British Columbia, McGill, Montréal and Toronto, Dean Wood said it's unlikely the U of A program will remain the only one in the country for long. There will be strong competition for PhD students, she predicted.

Dean Wood said the impact on the nursing profession will be felt as these programs get off the ground. "We've sent off some of our best people to the United States," she said, but now nurses will be able to earn doctoral degrees in their own discipline. That will enable nurses to do research on nursing problems in a Canadian context.

Health Minister Nancy Betkowski—a supporter of the program—said, "The need for this program is an outcome of a broad consultation process on nursing initiatives, which resulted from the interim report of the Premier's Commission on Future Health Care for Albertans."

Some observers believe that the decision to approve the program was, in part, a result of the government's desire to maintain the province's prominent health care position in the country. Rodger added that in a tight financial climate, another significant factor was that the government was being asked to reallocate existing money designated for educational purposes within its budget and not for "new" money.

## ACTIVITIES

**Ted Chambers** (Marketing and Economic Analysis and Director of the Western Centre for Economic Research) became President-elect of the North American Economics and Finance Association at the Allied Social Sciences meetings in Washington, D.C., 27 to 30 December. Professor Chambers will be Program Chairman for the Association meetings in New Orleans, 3 to 5 January 1992. **Don Jorgensen** is the new Manager of Special Funds and Research Accounting, Office of the Comptroller. Jorgensen is a graduate of the University of Alberta; since 1982, he has gained expertise about the

University environment as a senior member in the Internal Audit Department. The first book of **GSH Lock** (Mechanical Engineering), titled *The Growth and Decay of Ice*, was published last month by Cambridge University press. A second book, titled *The Tubular Thermosyphon: variations on a theme* (Oxford University Press), will appear later this year. **Robert Buck** (Classics) has been appointed a Maxwell Cummings Lecturer at McGill University from 18 to 20 March. Dr Buck will deliver a series of lectures on Greek history.

## ACROSS CANADA

### PETITION OPPOSING EMPLOYMENT EQUITY SENT TO BOB RAE

A petition against employment equity signed by almost one-fifth of the University of Waterloo faculty members has been sent to Ontario Premier Bob Rae. A recent request by one of the University's Provosts for departments to set targets for the number of women faculty in the next few years has touched off a campus-wide debate. Controversy has also emerged as a result of the process of choosing a new Dean of Arts.

### WESTERN GETS TOUGHER ON CAMPUS SMOKERS

The University of Western Ontario has amended its policy on smoking and placed stricter limits on where smoking is allowed. Effectively, the smoking ban has been tightened to include all buildings on campus, with the exception of campus pubs and designated areas in the student residences.

### RECOVERY PLAN FOR ONTARIO UNIVERSITIES PRESENTED TO GOVERNMENT

The Council of Ontario Universities has given the province's Minister of Colleges and Universities a working paper titled "A Recovery Plan for Ontario Universities." The paper calls for an additional \$410 million in the next four years to arrest chronic underfunding. Two-thirds of the costs would be borne by government and one-third by students.

### LETHBRIDGE WILL LIMIT ADMISSIONS NEXT JULY

The University of Lethbridge has decided to limit admissions 1 July 1991. The Committee on Admissions and Standards recommended a reduction of about 150 new students next fall. Enrollment in the Faculty of Arts and Science is in excess of funding.

### MEMORIAL URGED TO CHANGE HIRING POLICIES

A report prepared by the Review Committee on Affirmative Action has recommended that Memorial University change its hiring practices to address a gender imbalance among faculty members. About 23 percent of faculty members are women and about 13 percent of the University's 105 administrative positions are filled by women.

### UVIC HAS HIGHEST ENROLLMENT EVER

The University of Victoria's 1990 enrollment hit the 14,000 mark for the first time in its history. The enrollment is up by about six percent over 1989. The Faculty of Engineering showed the largest enrollment growth.

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# University Teaching Research Fund loosens purse strings

Susan Jackel, David Miall, Manfred Prokop, Christian Janssen and John Vederas are the first members of the academic staff to receive grants from the University Teaching Research Fund.

The total amount awarded was \$26,300, leaving \$23,700 for the second competition which will be conducted later this year.

Twenty-four grant proposals from eight Faculties and 18 different departments requesting total fund support of \$165,000 were received, reports Dianne Kieren, Associate Vice-President (Academic). "There were several examples of interdisciplinary proposals which have the potential of broadening the impact of any one effort," Dr Kieren says.

The peer review committee which selected the recipients looked for people who have been recognized as excellent teachers, who represent different disciplines and research perspectives, and who provide both subject matter and educational practice expertise.

Dr Jackel's calls her project "Writing Across the Curriculum: Canadian Studies." She says that in 1991-92, about 160 students will receive instruction designed to improve their writing skills, in the context of lectures and discussions on a wide range of topical concerns related to Canada and Canadians.

Dr Jackel aims to develop "workable, transferable, methods for integrating instruction in basic writing competence, including grammar, paragraph structure and argumentation, into classes other than those related to language and literature.

"This project," Dr Jackel says, "would constitute a practical, specific intervention into the vicious circle of writing incompetence that has occasioned so much debate and hand-wringing here and elsewhere over the past 15 years."

It seems that the computer program "Hyperties" has a number of good properties. Professor Miall (English) is exploring them in a project called "Developing Hypertext for Independent Learning in [British Romantic] Literature." When completed in December 1992, the system will offer a map of the links between the poetry and prose of the period, pointers to the historical context, and a range of supporting graphical materials, Dr Miall says.

"Hypertext software probably offers an ideal medium for tracing the rich and multiple relationships between the textual and graphical materials of a given literary period. In addition, the computer offers the advantage to the student of a tool that can be used independently of the instructor."

The beauty of hypertext, Dr Miall points out, is that it allows for material to be presented in nonlinear form: a word or phrase in one text can be linked to another text or a picture (or to a series of such links); this better represents the true complexity of the links that exist in a given literary period.

Much of the grant will go for a colour scanner and image-processing software; a hypertext package has already been installed on the computers in the new Arts/Business lab in the Tory Building.

Dr Prokop (Germanic Languages) wants to take CALL (computer-assisted second language learning) a step further. The mechanical drill associated with beginning and intermediate second-language learning has been a staple of the classroom. Shift the drill to the lab and there will be more contact hours for analytical questions, discussion and creative, communicative practice in the actual use of the language, Dr Prokop predicts.

"The effect would be to produce students who, while working independently in the computer lab, would develop increased proficiency in German."

Dr Prokop, who will work on the project from the beginning of May 1991 to the end of April 1992, plans to produce a document on

CALL implementation which could be used by other language departments.

For the last 10 years the Faculty of Business has employed a system of mandatory ratings of all course sections by students using a common form. Some 10,000 questionnaires are administered annually. However, Dr Janssen notes, neither the questionnaire nor the student responses have been subjected to much study.

With the grant from the University Teaching Research Fund, Dr Janssen (Finance and Management Science) is studying the questionnaire via Mokken analysis, a relatively new procedure which permits examination of the scalability of individual questionnaire items, groups of related items, and the instrument as a whole. He will then investigate the effect on ratings of various influencing factors, and the interrelationships among different factors, by means of structural equation modelling.

When Dr Janssen's work is completed in June 1991, the Faculty will be in position to reassure staff and students if the form is judged sound or to revise the form if it is found wanting.

The objective: teach students in basic organic chemistry courses to recognize and understand chemical structures in three dimensions. The

drawback: the only three dimensional instruction tools available for these classes of 100-200 students per section are expensive plastic models that are often too small and susceptible to breakage.

Dr Vederas (Chemistry) aims to provide his teaching colleagues with sets of colour slides and necessary accessories to show and produce chemical structures in three dimensions to large audiences.

In applying for the grant, Dr Vederas said the basic principles of 3-D photography and projection with polarizing filters are well-established and that he has tested them to his satisfaction. He also expressed confidence in his ability to "produce chemical structures with correct perspective and high visual impact directly from simple line drawings."

## Museums and Collections Services sizing up its options

Museums and Collections Services (known as University Collections until University Archives and Collections was split into two units last April) is reviewing long-range plans, deciding how best to support the University's collections now that the Timms Collections Centre won't be built.

Janine Andrews, who joined the University Collections staff in 1984, was named Director of the newly independent unit in August. She says the name change helps to clarify the service nature of the department. "People kept thinking that we were all the collections for

the University, and we're not. We are a service to the academic teaching units."

There are approximately four million objects and specimens held in more than 30 collections at the University of Alberta, in scientific areas such as mineralogy and paleontology as well as in textiles and art. Altogether they constitute one of the largest collections in Canada, comparable to the size of the Canadian Museum of Civilization.

The majority of the collections are housed in the academic units where they are used in teaching and research. The curators in most cases are professors rather than professional museologists.

It is Museums and Collections Services' role to assist those departmental curators with collections management, offering assistance with documentation, conservation, exhibition, and so on. The staff is in the process of solidifying a five-year plan, based on needs expressed in interviews with all of the curators on campus.

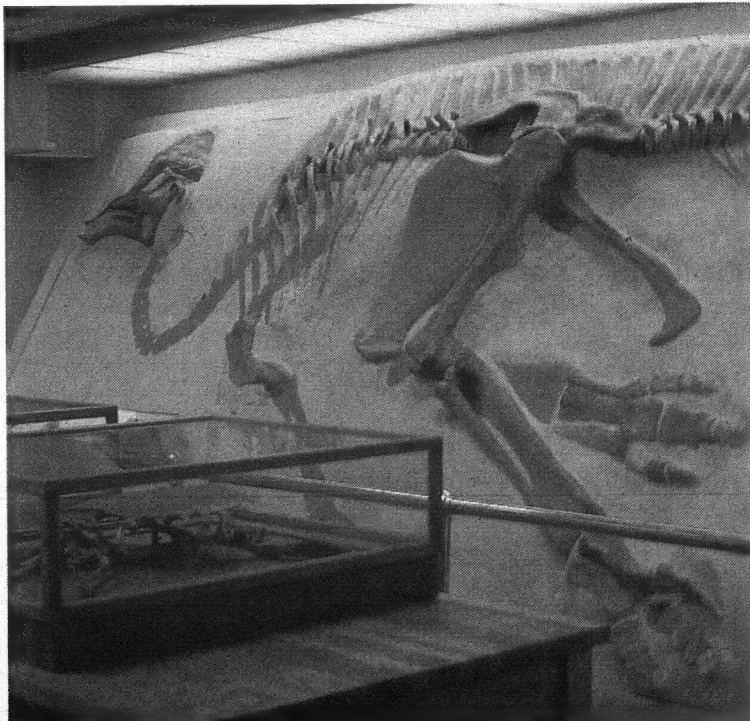
Regarding the loss of the Timms Centre, Vice-President (Student and Academic Services) Lois Stanford says, "We will miss the space that would have been provided, but Museums and Collections Services is not critically hurt in regard to its function."

Andrews agrees, saying, "We see a lot of positive things that we can do even without the Timms Centre. There's a lot of good we can do for the various collections."

She points out that the Timms Centre was never intended to house all of the University's collections. They need to be decentralized in order to be of benefit to the students and academics working on them.

However, she says, "There still is definitely a need for an exhibition space that could be used by all collections, not only to profile the collections on campus, but to show the average person off campus what the University's research is all about. That's part of our function."

Dr Stanford says, "We have a wealth of really important collections on this campus, and it's important that people know about them."



Museums and Collections Services

Paleontology Museum, Dinosaur skeleton collected in 1921 at Sand Creek, Alberta



University  
of  
Alberta

## Emil Skarin Fund

### Invitation to apply

Applications are invited to the Emil Skarin Fund Committee of the University Senate for financial support of a 1991 project or projects. Approximately \$4,000 from the Fund will be available.

Projects must be of value both to the public as well as the University of Alberta; be consistent with the general aims and purposes of this University, but not normally funded by it; and originate within the Province of Alberta.

Preference will be given to projects with an emphasis on the humanities and the arts. Proposals should include objectives, schedule, budget, and procedures for organization and evaluation.

Application forms are available on request, and should be returned, completed, by 18 February 1991.

The Chairman,  
Emil Skarin Fund  
Committee  
University of Alberta  
150 Athabasca Hall  
Edmonton, Alberta  
T6G 2E8

Tel. 492-2268





Photo Services

## AGT rings in the new year in academic fashion

John Ohala and Manjari Ohala (seated) were introduced to the University community at a reception last week. John Ohala is AGT Visiting Professor of Linguistics for a two-year term starting 1 January. Home base is the University of California at Berkeley where he specializes in experimental phonetics and phonology. Manjari Ohala is on the faculty of San Jose State University's Department of Linguistics. She is on sabbatical leave, and is conducting research and writing a book on Hindi phonetics. Pictured with the Ohalas are (left to right): Anthony Harkham, Director, Research and Development, AGT Ltd; Neil Webber, Chairman, Telus Corporation and AGT Ltd; Bob James, Vice-President (Research); and John Hogan, Chair, Department of Linguistics.

## Experts detect flaws in draft environmental legislation

The newly formed Environmental Research and Studies Centre (ERSC) on campus is not enamoured of the province's proposed new Environmental Protection and Enhancement Legislation.

An eight-member review team assembled by Ellie Prepas, Acting Director of ERSC, says there is an "inappropriate reliance" upon the Lieutenant Governor, Minister and/or Directors. The reviewers contend that despite the size of the proposed Act (139 pages), most of the substance will rely on "regulations" which have yet to be seen and which will be drafted by the government.

In a report submitted to Alberta Environment, the reviewers recommended that a process be set up to allow affected parties to respond to the regulations. It was also recommended that the regulations "be at least outlined" before the Act is passed.

The report also criticizes the proposed Act for giving "far too much unrestrained discretion to the Minister and Directors. Essentially, they can waive the Act's requirement's for any reason they choose. For example, the Director has unlimited discretion to decide whether to exempt a project from environmental review, and there is no opportunity for affected parties to provide a statement of concern."

The review team consisted of: Dr Prepas, J Crosby (Coordinator), DW Schindler, C Zeiss, S Hruidey, D Percy, S Elgie and H Hughes (Faculties of Science, Engineering, Medicine and Law). The review was prepared for the express purpose of helping the City of Edmonton with their response to the new legislative package. ERSC later submitted its own report to Alberta Environment.

The legislative package just referred to was drawn up to replace nine existing Acts including the Clean Air Act, Clean Water Act and the Hazardous Chemicals Act.

Another suggestion by the review team was that the membership of the key body charged with recommending to the Minister, the Sustainable Development Coordinating Council, be broadened to include people from universities, industry, municipalities, environmental groups and aboriginal groups. At present, the Council is made up of civil servants.

"An ombudsman or independent assessor is needed to oversee decisions," the reviewers emphasize.

Other concerns of the reviewers are:

- The Director has unlimited discretion to decide which projects require Environmental Impact Assessments. The reviewers say the

legislation should at least set the scope of projects that would require EIAs.

- Projects may be initiated before the completion of an EIA. This strikes the reviewers as being "illogical and unacceptable."

- The US EPA legislation, which holds that ignorance is no excuse, is favoured over the section in the proposed Act which allows ignorance of deleterious effects to be a defence for polluting.

- As the Act is now, all pollution offences must be tried in a ponderous manner. The reviewers call for a "ticketing regime" to deal with minor infractions.

- The full name of the proposed Act is The Alberta Environmental Protection and Enhancement Legislation. Enhancement is given short shrift, the reviewers feel. They recommend that a new part be added to the Act to encourage enhancement and research into enhancement techniques and to clearly separate such action from protection of introduced wastes.

Having received written comment from Albertans, the government will hold meetings throughout the province. "This consultation will see a new Act introduced to the Legislative Assembly of Alberta in the spring of 1991," says Environment Minister Ralph Klein.

## BROADUS LECTURES 1991

### Holding a mirror to 'Shakespeare and Magical Thinking'

This year's Broadus Lectures are to be given by Linda Woodbridge on 28, 30, and 31 January, and 1 February.

The lecture series, which has been held annually since 1971, is named for Edmund Kemper Broadus, first professor and first Head of the Department of English. Professor Broadus was recruited by Henry Marshall Tory in 1908 from Harvard, where he had just completed his doctorate, and was Head of the department until his death in 1936. He was elected to the Royal Society of Canada in 1934, and was awarded an honorary LL.D by this University in 1935.

Linda Woodbridge, who has been an English professor at the University of Alberta since 1970, teaches Renaissance literature and is a former Chair of the English

Department. Her publications include *Women and the English Renaissance*, *Shakespeare: A Selective Bibliography of Modern Criticism*, and many articles.

This year's lectures, offered under the series title "Shakespeare and Magical Thinking," are:

"Patchwork: Piecing the Early Modern Mind" (Monday, 28 January);

"Shakespeare and the Carnival of Time" (Wednesday, 30 January);

"The New Historicism, University Administration, and Other Fairy Tales" (Thursday, 31 January);

"Green Shakespeare" (Friday, 1 February).

Each lecture will take place at 4 pm in L-1 Humanities Centre. All are welcome.

## CURRENTS

### CONFERENCE ANNOUNCEMENT AND CALL FOR PAPERS

The Eleventh Annual Conference of the Society for Teaching and Learning in Higher Education will take place 15 to 18 June 1991 at Dalhousie University, Halifax. The STLHE invites proposals for interactive presentations on developing teaching and learning in postsecondary education. Submissions are welcomed from faculty, instructional developers and those interested in the advancement and enhancement of higher education.

For more information, or to register, contact: STLHE Conference, c/o Office of Instructional Development and Technology, Dalhousie University, Halifax, Nova Scotia B3H 3J5. Telephone: (902) 494-1622. Fax: (902) 494-2319.

### CHAIR SELECTION COMMITTEE: FACULTY OF SCIENCE

The Faculty of Science announces that a Chair Selection Committee has been established to select a Chair for the Department of Physics. The committee is prepared to receive nominations and comments from members of the University community; these should be addressed to Dr W John McDonald, Dean of Science.

### HONE YOUR WRITING SKILLS

Private tutorial assistance is provided with each of the following courses: "Writing for University" (for undergraduate students), "Revising and Editing Your Thesis" (for graduate students), "Writing Group," and "Writing for Business."

For more information on these noncredit courses, contact Effective Writing Resources, 302B Students' Union Building, 492-2682.

### SOUTH LRT HOTLINE

Questions on the status of the South LRT Extension Project?

Public Works has a South LRT Telephone Hotline that provides a recorded message of up-to-date information on current activities. Callers can also make comments and enquiries through the hotline service.

The South LRT Hotline phone number is 428-3466.

### EXTENSION FACULTY COURSES

The Winter/Spring 1991 Applied Behavioral Sciences brochure for courses in communications and personal development is available by calling 492-5069.



## Tory Chair says Inuit diet remarkably resistant to change

Despite the fact that the Inuit are increasingly urbanized and subject to outside influences, their diet has remained remarkably resistant to change, says Tory Chair Milton Freeman (Anthropology).

The first speaker in Human Ecology Issues in the North, an interdisciplinary seminar series, Dr Freeman said seeking the answers to why this is so is not, at first glance, as easy as it might seem.

A simple explanation may be that tastes developed early in their lives may stay with the Inuit. Country foods taste better than store-bought foods, and country food is cheaper, he said, but these explanations do not wholly or satisfactorily explain the maintenance of the traditional diet.

"We should not be looking at food in the North in terms of its nutritional value, but rather in terms of its cultural value," he said.

The notions of sharing and cooperation have remained very important, but with the introduction of such things as a wage economy, those notions have been harder to maintain. He pointed out that many of the community assets are no longer divisible. "A job can be

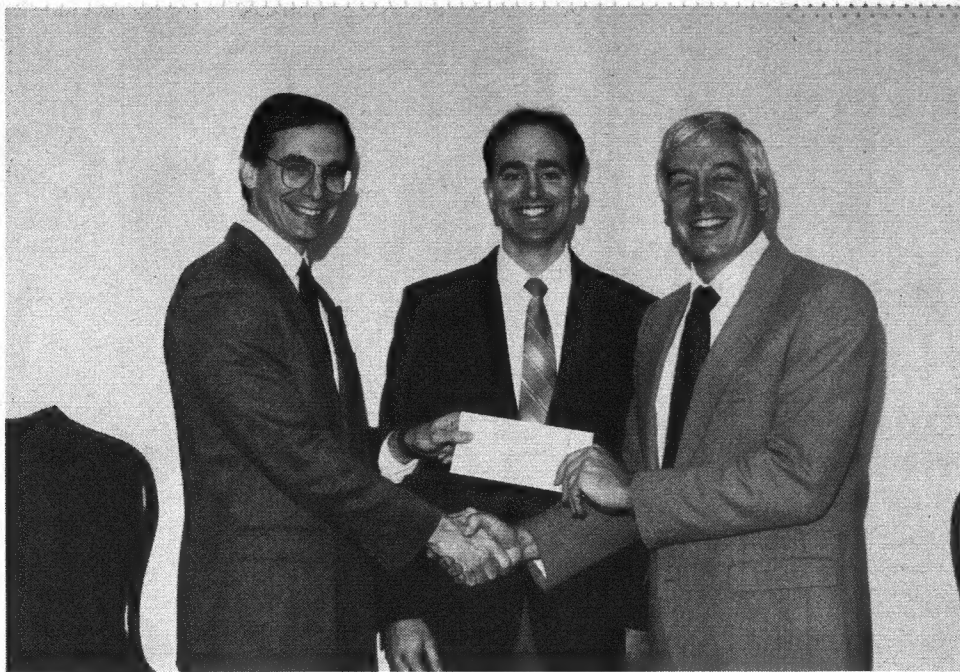
shared, it's true, but there are certain jobs that require certain training and skills that cannot be shared."

The activities involved in procuring food which demanded sharing and cooperation have now been cut back and fewer people are actually involved in hunting activities, "but on the other hand, there are ways in which the values which underlie the sharing behaviours can be emphasized within the community."

For example, a great deal of cooperation was involved in procuring food and everyone was involved in one way or another with that phase. Now, with people working from nine to five, there is a greater emphasis on the distribution and consumption of food.

Birthdays have become occasions for community-wide feasts and Christmas and Easter have become huge celebrations at which the whole community comes together. Everyone contributes to the feasts and they have become highly ritualized.

Dr Freeman's talk was titled "Human Ecological Perspectives on the Contemporary Inuit Diet."



Pierre Leonard (left) presents the Nordic Laboratories Studentship in Pharmacology to Rob Dupuit (centre) and President Davenport.

## Nordic Laboratories provides studentship in pharmacology

Nordic Laboratories of Montreal recently provided a studentship for a Canadian student who is pursuing his or her graduate research in the Department of Pharmacology at the University of Alberta.

There has been a useful interaction between Nordic and the Department of Pharmacology for about two years, in which research funds have been provided by Nordic to Drs Clanachan, Cook, Lopaschuk and Wong on topics of mutual interest. The company, whose involvement in research in Canada has been expanding rapidly, decided that the training of young scientists was an appropriate area to support.

At a brief ceremony in November, Pierre Leonard of Nordic Laboratories met with representatives of the Department of Pharmacology and the Faculties of Medicine and Graduate Studies, and presented President Paul Davenport and Rob Dupuit with the award. Dupuit, who is the first recipient of the Nordic Studentship in Pharmacology, is working under the supervision of Wendy Gati on the action of drugs which inhibit adenosine transport and which may find clinical application in a variety of areas.

## Dancik in charge of NRC's fleet of research journals

Bruce Dancik, Chair of the Department of Forest Science, has been appointed Editor-in-Chief of the National Research Council's 13 research journals, succeeding Claude Bishop who retired recently.

Dr Dancik, the first Editor-in-Chief from outside NRC, has been Assistant Editor-in-Chief for the journals for the last three years. He has been editor of one of the NRC journals, the *Canadian Journal of Forest Research*, since 1980. Dr Dancik has been at the University of Alberta since 1973, teaching dendrology and forest genetics, and leading a research team in the population genetics of forest trees. In 1978, he chaired hearings for the Environmental Council of Alberta,

and authored the resulting report on the Environmental Effects of Forestry Operations in Alberta. He was awarded the Canadian Forestry Achievement Award of the Canadian Institute of Forestry in 1979.

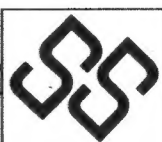
Dr Dancik recently headed a panel reviewing proposed forestry development in northern Alberta for the Ministry of Forestry, Lands and Wildlife and presented a final report in May of 1990 titled "Forest Management in Alberta."

"My objective is to encourage our editors to maintain and promote their journals to be the flagships of their disciplines," Dr Dancik says. "We will have to be diligent and innovative to ensure that the NRC journals continue to serve the changing needs of the Canadian scientific community."

NRC created the first Canadian Journal of Research in 1929 in response to the increasing scientific activity in Canada at that time. A comprehensive set of primary journals covering the biological, physical, and engineering sciences was subsequently developed. The publications allow scientists and engineers from Canada and elsewhere to communicate their work to their peers.

A 14th journal, *Environmental Reviews*, will make its debut later this year.

The journals attract international contributions, and have more than 28,000 subscriptions worldwide. Eight of them rank in the top 13 percent of the world's science literature as measured by total citations.



St. Stephen's College

### The Senate of St. Stephen's College Invites Honorary Degree Nominations

St. Stephen's College is accepting nominations for recipients of the degree of Doctor of Divinity honoris causa to be conferred at the fall Convocation, 1991.

The degree recognizes and honours individuals who:

- have demonstrated outstanding commitment to the church's ministries
- have given meritorious service which contributes to the spiritual and social well-being of the community
- provide leadership in denominational and ecumenical circles

Please request nomination forms from the College by calling or writing to:

Dolores Bell  
St. Stephen's College  
8810 - 112 Street,  
Edmonton, Alberta, T6G 2J6  
Phone: (403) 439-7311

Deadline for nominations is March 15, 1991



## TALKS

LIMNOLOGY AND FISHERIES  
DISCUSSION GROUP

17 January, 12:30 pm  
GL Mackie, Zoology, University of Guelph, "Variations in Seasonal Abundance and Settling Rates of Veliger Larvae of *Dreissena polymorpha* in the Great Lakes and Strategies for Control." M-149 Biological Sciences Building.

## SOIL SCIENCE

17 January, 12:30 pm  
Yongsheng Feng, "Kinematics of Plant Root Elongation." 2-36 Earth Sciences Building.  
24 January, 12:30 pm  
Joselito Arocena, "Microstructures of Alberta Podzols: Genesis and Relation to Mineral Weathering." 2-36 Earth Sciences Building.  
31 January, 12:30 pm  
E Prepas, "Sediment-water Interactions in Prairie Lakes and Drinking Water Dugouts - Towards Management of the Quality of Surface Waters in Western Canada." 2-36 Earth Sciences Building.

## CONTEMPORARY CULTURAL ISSUES

17 January, 3:30 pm  
Hermena Joldersma, Germanic Studies, University of Calgary, "1980-1990: A Decade of Consolidation and New Challenges for the German Women's Movement." L-4 Humanities Centre.

## ANTHROPOLOGY

17 January, 3:30 pm  
Edith Swan, Anthropology, Oberlin College, "Symbolic Geography: Women and Nature at Laguna Pueblo." 14-6 Tory Building. Jointly sponsored by Anthropology, Sociology, School of Native Studies, Women's Studies, and the Faculty of Arts.

## FACULTY OF EXTENSION

17 January, 4:30 pm  
Campus Conserver Society Project Meeting, 2-115 Education North.

MUSIC AND EAST ASIAN LANGUAGES  
AND LITERATURES

17 January, 7:30 pm  
William P Malm, University of Michigan, "1000 Years of Japanese Traditional Music." L-1 Humanities Centre.  
18 January, noon  
Video Presentation: "The Music of Kabuki." 1-29 Fine Arts.  
21 January, noon  
Jan Overduin, Wilfrid Laurier University, "Organ Works of Barrie Cabena." Convocation Hall.

HOME ECONOMICS AND NATIVE  
STUDIES

18 January, 1 pm  
Home Economics Student Association presents Jill Oakes, Inuit Fashions modelled by Native Studies Students. East side, main floor, CAB.

## PHYSICS

18 January, 2 pm  
L Neil Frazer, Geology and Geophysics, University of Hawaii, Honolulu, "Annealing Inversion in Geophysics." V-125 Physics Building.

## HISTORY

18 January, 3:05 pm  
Luis Millones, Department of Anthropology, University of San Marcos, Lima, Peru, "The Dance of the Sickness Rebellion." 2-58 Tory Building.  
23 January, noon  
Ann McDougall, "Commercial Capitalism at its Most Incompetent: Salts and Salt Marketing in the French Sudan, 1890-1917." 2-58 Tory Building.  
23 January, 7:30 pm  
Professor Millones, "The Festival of Rose." TBW-1 Tory Breezeway.

## ZOOLOGY

18 January, 3:30 pm  
Gerry Mackie, Zoology, University of Guelph, and Ellie Prepas, "Biological and Life History Attributes of the Zebra Mussel, *Dreissena polymorpha* (Bivalvia: Dreissenidae), and Social and Ecological Impacts in the Great Lakes." M-149 Biological Sciences Building.  
25 January, 3:30 pm  
Susan Hannon, University of Western Ontario, and Todd Arnold, "Food Limitation and the Adaptive Significance of Clutch Size in American Coots." M-149 Biological Sciences Building.

## LIPID AND LIPOPROTEIN GROUP

18 January, 8:30 pm  
Urs Steinbrecher, Department of Medicine, University of British Columbia, "Role of Oxidized LDL in Foam Cell Formation and Atherosclerosis." Jasper Park Lodge. For information, contact Dennis Vance, 492-8286.

## LAW

19 January, 9 am  
Saturday Morning at the Law School—"Family Law." Information: 492-3115. Law Centre.

## GEOLOGY

21 January, 11 am  
Robert Farvolden, University of Waterloo, "Groundwater in the Valley of Mexico." 106 Earth Sciences Building.  
24 January, 11 am  
Arnold Bouma, Geology and Geophysics, Louisiana State University, Baton Rouge, "Examples of Submarine Fans, Models, and the Parameters that Influence their Construction." 104 Earth Sciences Building.  
24 January, 2 pm  
Arnold Bouma, "Channel Fill Characteristics of Different Submarine Fan Systems." 235 Earth Sciences Building.  
31 January, 11 am  
Ron Spenser, Geology and Geophysics, University of Calgary, "Qaidam Basin, China." 104 Earth Sciences Building.

CANADIAN FEDERATION OF  
UNIVERSITY WOMEN

21 January, 7:30 pm  
Academic Awards Night  
Bonnie Halvorson, recipient of CFUW's Margaret Brine Graduate Scholarship for Women, "Summer at the Smithsonian." Faculty Club.

## COMPUTING SCIENCE

21 January, 3:30 pm  
Jerry Hayes, Concordia University, "Multiplexing and Congestion Control in Broad Band Networks." 619 General Services Building.

## ALBERTA INTERNATIONAL

22 January, 9:30 am  
Marc Van Amerigen, Senior Advisor, International Development Research Centre (Canada), "The IDRC and Its Programs." 222 Campus Tower. To register: Leave name and number with Jill at 492-2958 before 21 January.

## INTERNATIONAL CENTRE

22 January, 12:30 pm  
Joseph Kirman, "Human Rights Education: My Rights, Your Rights and How We Protect Them." 172 HUB International.  
23 January, noon  
Mary Burlie, honorary President of Change for Children, "The Rights of the Child." 172 HUB International.  
29 January, 12:30 pm  
Sonya Sobon, executive director of the organization, Public Awareness of Sexual Stereotyping and Pornography, "Women and Human Rights." 172 HUB International.  
30 January, noon  
Anne McLellan, "Human Rights and the University of Alberta." 172 HUB International.  
31 January, 7 pm  
Erica Bullwinkle, Edmonton Amnesty Group's Coordinator of Philippines and Indonesian Regional Action Network, "Amnesty International Workshop." 172 HUB International. Preregister for this free workshop by 24 January, 492-2692.

## HUMAN ECOLOGY

22 January, 3:30 pm  
J Ash Poitras, "Native Art: A Medium for Discussing Northern Issues." 207A Law Centre.  
29 January, 3:30 pm  
D Young and E Olsen, "Use of Wild Plants for Food and Medicine." 207A Law Centre.

LIBRARY AND INFORMATION  
STUDIES

23 January, noon  
Ross Godwin, Arctic Institute Library, University of Calgary, and Robin Minion, "Towards a Canadian Polar Information System." 3-01 Rutherford South.

## FOREST SCIENCE

23 January, 3:30 pm  
AK Hellum, "Forestry Foreign Aid in Bhutan." 2-1 Mechanical Engineering Building.

PHYSICAL EDUCATION AND SPORT  
STUDIES

23 January, 4 pm  
L Wankel, "The Leisure-Health Connection." E-120 Van Vliet Centre.

## THE WOMEN'S HEALTH CENTRE

23 January, 7:30 pm  
Mary Johnson, "The Women's Health Centre and Women's Wellbeing." The Women's Health Centre, 11043 90 Avenue.

SLAVIC AND EAST EUROPEAN  
STUDIES

24 January, 3:30 pm  
RL Busch, Report on "The Changing Soviet Union: Implications for Canada." (National conference, Ottawa, November 1990.) 141 Arts.  
31 January, 3:30 pm  
PA Rolland, "Emblems, Engravings, and *Icones* in Simeon Polotsky's Early Verse." 141 Arts.

## CLOTHING AND TEXTILES

24 January, 7:30 pm  
Albert Borgman, University of Montana, "Moral Decisions and Material Culture." 2-11 Humanities Centre.

## ENTOMOLOGY

24 January, 4 pm  
Andrew French, "Transduction and Adaptation in an Insect Mechanoreceptor." TBW-1 Tory Building.

## AGRICULTURAL ENGINEERING

24 January, 5 pm  
James N Willson, "Automatic Control and Instrumentation on Off-Road Equipment." 1-30 Agriculture-Forestry Building.

## ACCOUNTING

25 January, 2 pm  
Jere Francis, University of Iowa, "A Framework for Integrated Audit Tests of Transactions and Account Balances." B-09 Business Building.

## GEOGRAPHY

25 January, 3 pm  
Jim Burns, Provincial Museum, and Olwen Beaudoin, Archaeological Survey Alberta Culture and Multiculturalism, "Mammoths, Palynomorphs, and Mou Tai: Scientific Travels in North Eastern China." 3-36 Tory Building.

## PHILOSOPHY

25 January, 3 pm  
Albert Borgmann, Philosophy, University of Montana, "Reality and Hyperreality." L-2 Humanities Centre.

ENGLISH - EDMUND KEMPER  
BROADUS LECTURES 1991

28 January  
"Patchwork: Piecing the Early Modern Mind."  
30 January  
"Shakespeare and the Carnival of Time."  
31 January  
"The New Historicism, University Administration, and Other Fairy Tales."  
1 February  
"Green Shakespeare."  
Linda Woodbridge will present this year's lectures under the theme "Shakespeare and Magical Thinking." All lectures take place in L-1 Humanities Centre, at 4 pm.

ALBERTA HERITAGE FOUNDATION  
FOR MEDICAL RESEARCH

29 January, 4 pm  
James Casanova, Anatomy, University of California, "Protein Traffic in Epithelia: Analysis of Sorting Signals in the IgA Receptor." 5-10 Medical Sciences Building. Presented by Anatomy and Cell Biology.

## EXHIBITIONS

## MCMULLEN GALLERY

Until 25 January  
"Serendipity", an exhibition featuring seven Alberta artists. Call for gallery hours: 492-8428 or 492-4211.

## FAB GALLERY

Until 27 January  
"Staff Shows 1990—Part II"—printmaking, industrial design and visual communication design. Gallery hours: Sunday, 11 am to 5 pm; Monday and Saturday, closed; Tuesday, Wednesday and Friday, 10 am to 5 pm; Thursday, 10 am to 8 pm. 1-1 Fine Arts Building.

## BRUCE PEEL SPECIAL COLLECTIONS

Until 23 February  
"Women Writing: Five Centuries of Verse and Prose"—an exhibition in celebration of *The Feminist Companion to Literature in English*. Hours: Monday and Friday, 8:30 am to 4:30 pm; Tuesday to Thursday, 8:30 am to 6 pm; Saturday, noon to 5 pm; Sunday, closed.

## MUSIC

## DEPARTMENT OF MUSIC

17 January, 8 pm  
Master's Student Recital—David Scott, composer.  
19 January, 8 pm  
Benefit Concert—Marek Jablonski, pianist. Tickets: \$20/adults; \$14/students and seniors. Information: 492-3263.  
Both events take place in Convocation Hall.

EDMONTON CHAMBER MUSIC  
SOCIETY

20 January, 3 pm  
"American Chamber Players." Tickets: 433-4532 or 492-5124. Myer Horowitz Theatre.

18 January, 6:15 pm  
Volleyball—Pandas vs University of Calgary  
18 January, 8 pm  
Volleyball—Bears vs University of Calgary  
19 January, 6:15 pm  
GUBA's Birthday Party  
19 January, 6:15 pm  
Volleyball—Pandas vs University of Calgary  
19 January, 8 pm  
Volleyball—Bears vs University of Calgary



## AWARD OPPORTUNITIES

### THE QUEEN ELIZABETH II DOCTORAL FELLOWSHIPS IN ENVIRONMENTAL STUDIES

Applications are now being accepted for The Queen Elizabeth II Doctoral Fellowships in Environmental Studies. The scholarships were established by Premier Don Getty to honour Her Majesty's visit to Alberta this past summer.

The awards are valued at \$20,000 each and tenable for three years of study. Applicants must be Alberta residents and enrolled or intending to enroll as a full-time student in a doctoral program focusing on a topic relating to the environment. Study may take place anywhere in the world.

Selection will be based on merit as evidenced by academic transcripts and appraisals. Application deadline: 1 February 1991.

For applications and further information, contact: Leon Lubin, Director, Scholarship Programs, Students Finance Board, 9th Floor, Baker Centre, 10025 106 Street, Edmonton, Alberta T5J 1G7. Telephone: 427-8640. Fax: 422-4516.

## POSITIONS

*The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.*

### SUPPORT STAFF

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 11 January 1991. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Positions available as of 11 January 1991.

The limited number of vacancies is a result of the current Support Staff hiring freeze.

The salary rates for the following positions reflect adjustments in accordance with the terms for the implementation of the Pay Equity Program.

**ACCOUNTS CLERK** (Grade 6) (Part-time/Term to 31 March 1991), Drama, (\$1,171 - \$1,460 prorated)

**BIOCHEMISTRY TECHNOLOGIST** (Grade 7) (Part-time), Psychiatry, (\$1,063 - \$1,332 prorated)

**COMPUTER ASSISTANT** (Grade 5), University Computing Systems, (\$1,784 - \$2,210)

**SENIOR ACCOUNTS CLERK** (Grade 6), Provincial Laboratory, (\$1,952 - \$2,433)

**ADMINISTRATIVE ASSISTANT** (Grade 9), Extension (Public Policy Programs), (\$2,484 - \$3,152)

The following positions retain salary rates in accordance with the old classification system and pay plan.

**CLERK TYPIST III** (TRUST), Faculty of Dentistry, (\$1,505 - \$1,890)

**SECRETARY** (Trust), Biochemistry, (\$1,677 - \$2,145)

**ACCOUNTS CLERK** (Part-time/Trust), Surgical-Medical Research Institute, (\$1,006 - \$1,286 prorated)

**SECRETARY** (Trust/Term to 31 August 1991), Foods and Nutrition, (\$1,677 - \$2,143)

**MEDICAL STENO** (Trust), Medicine, (\$1,677 - \$2,143)

**LABORATORY ASSISTANT II** (Trust), Genetics, (\$1,350 - \$1,677)

**BIOCHEMISTRY TECHNOLOGIST I** (Part-time/Trust/Term to 15 July 1991), Biochemistry, (\$1,286 - \$1,460 prorated)

**BIOCHEMISTRY TECHNOLOGIST I** (Trust), Pharmacology, (\$2,143 - \$2,765)

**TECHNOLOGIST I/II** (Trust), Genetics, (\$2,143 - \$3,018)

**PROGRAMMER ANALYST II** (Trust), Biochemistry, (\$2,537 - \$3,297)

**TECHNOLOGIST IV** (Trust), Medical Microbiology and Infectious Diseases, (\$2,889 - \$3,767)

## ADS

### ACCOMMODATIONS AVAILABLE

**VICTORIA PROPERTIES** - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call (604) 595-3200, Lois Dutton, Re/Max Ports West, Victoria, BC.

**VICTORIA BOUND?** Relocating, investing. Ronn Bence, 438-1575. Maps, listings, information. Re/Max Realty.

**HOUSE TO LEASE** - Windsor Park, 8923 120 Street. \$1,700/month. Large, fully renovated, four bedrooms, 3 1/2 bathrooms, full basement, double garage. Minimum one year. References required. Rand City Realty, Jill, 449-0795.

**FOR RENT** - Furnished, 2,600 square foot house in Belgravia. February-August. Nonsmoker. Call 437-0473 or 1-232-1700.

**MATURE, RESPONSIBLE STAFF/student accommodation.** Furnished room, Saskatchewan Drive. 439-0481 (leave message).

**RENT** - Riverbend, executive home. Three bedrooms plus den. Good location, quiet area. Double garage. \$1,300/month. 430-7164.

**GREAT BRITAIN? LONDON APARTMENT?** Country cottage? Castle/manor apartment? Villa in France, Italy? Hearthstone Holidays, PO Box 8625, Station L, Edmonton, T6C 4J4. Phone (403) 465-2874, Fax (403) 468-5517.

**RENT** - New, 2,400' house in river valley, downtown view, close to University. \$1,200/month, 436-1941 to view.

**RETIRING TO BC?** Mountain top acreage home. Panoramic view of Victoria. One-two year lease. Nonsmokers, no housepets. 430-6297.

**SALE** - Spacious, open beam bungalow. Three bedrooms, main floor laundry, attached single garage, finished basement. Quiet Malmo location, handy to Southgate. \$139,900. Andrea Hammond, Royal LePage Real Estate, 436-5080, 435-5640.

### ACCOMMODATIONS WANTED

**GOING SOUTH?** Responsible University couple will housesit for winter. 987-2736 evenings.

**McMASTER PROFESSOR AND FAMILY** (two children under five) needing home close to University, 10 May - 15 August. Call (416) 627-9772.

**PROFESSIONAL WOMAN** requires six months' accommodation. Housesitting preferred. Jody, 437-3280.

### AUTOMOBILES AND OTHERS

**CAVALIER STATION WAGON**, V6, 1986, 99,000 km, power brakes, power steering. Must sell (relocation to Germany). \$4,700. Dr Seelis, 492-2011 (3076).

### GOODS FOR SALE

**THE EDMONTON BOOK STORE** specializes in books for the University community. Quality books bought and sold every day; just a short walk from campus, 8530 109 Street. Call 433-1781.

### SERVICES

**DONNIC WORD PROCESSING** - Since 1978, specializing in theses, manuscripts, etc. 453-2769.

**COMPUTERIZED LITERATURE SEARCHING.** Expert information retrieval by experienced scientist. All areas. Requests accepted by phone. No red tape! Competitive rates. Satisfaction guaranteed. JL Citation Services, 487-8652.

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**NANNY SEEKING EMPLOYMENT**, preferably University area. Employer leaving country. References available. Please call 433-5749.

### MISCELLANEOUS

**MALE SENIOR CITIZEN** requires person to share cabin expenses on air/sea cruise. Australia, Tasmania, New Zealand. 29 January-15 February 1991. For details, 432-9332.

**NEED TUTOR** in Persian (Farsi), weekly conversation. Going rates. Phone George, 437-4078, 6 pm to 10 pm.

## CAMPUS TOWER SUITE HOTEL



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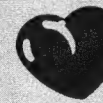
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**\$43.00** per day on monthly basis

for a one bedroom suite  
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C O N F E R E N C E C E N T R E



University  
of  
Alberta

6th Annual

## CANADIAN ROCKIES GREAT TEACHERS' SEMINAR

### Toward Improving Post-Secondary Instruction

#### PURPOSE:

- \* To practice rational analysis of instructional problems and to find realistic, creative approaches to their solution.
- \* To cause educators to venture beyond the limits of their own specializations and environments in search of transferable ideas and the universals of teaching.
- \* To stimulate the exchange of information and ideas within post-secondary institutions by building an expanding communications network among faculty.
- \* To promote an attitude of introspection and self-appraisal by providing a relaxed setting and an open, human climate in which participants can seriously review and contemplate their own attitudes, methods and behaviours as teachers.
- \* To celebrate good teaching.

To be held at the  
Nakoda Lodge  
Morley, Alberta - CANADA  
June 16-21, 1991

For more information or to register, contact:

Faculty Development  
Grant MacEwan Community College  
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